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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/764,004	01/17/2001	Earl M. Ortt	0275D-299CPA	3598
75	90 09/11/2002			
Harness, Dickey & Pierce, P.L.C.			EXAMINER	
P.O. Box 828 Bloomfield Hill	s, MI 48303		WAKS, JOSEPH	
			ART UNIT	PAPER NUMBER
			2834	
			DATE MAILED: 09/11/2002	2

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	. 11
Office Action Commons	09/764,004	ORTT, EARL M.	w
Office Action Summary	Examiner	Art Unit	
<u> </u>	Joseph Waks	2834	-
The MAILING DATE of this communication apperiod for Reply	ppears on the cover sheet	with the correspondence addr	ess
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu - Any reply received by the Office later than three months after the mailier earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may ply within the statutory minimum of t will apply and will expire SIX (6) N te, cause the application to become	r a reply be timely filed thirty (30) days will be considered timely. IONTHS from the mailing date of this comi ABANDONED (35 U.S.C. § 133).	munication.
1) Responsive to communication(s) filed on 17	<u>January 2001</u> .		
2a) This action is FINA L. 2b) ⊠ T	his action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice unde Disposition of Claims	vance except for formal n r <i>Ex parte Quayle</i> , 1935	natters, prosecution as to the C.D. 11, 453 O.G. 213.	merits is
4)⊠ Claim(s) <u>1-27</u> is/are pending in the application	n.		
4a) Of the above claim(s) is/are withdra	awn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-3,7,10-12,16-21 and 25-27</u> is/are r	ejected.		
7)⊠ Claim(s) <u>4-6,8,9,13-15 and 22-24</u> is/are objec	eted to.		
8) Claim(s) are subject to restriction and/	or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examin	er.		
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to b	y the Examiner.	
Applicant may not request that any objection to the		· · ·	
11)☐ The proposed drawing correction filed on	_ is: a)☐ approved b)☐	disapproved by the Examiner.	
If approved, corrected drawings are required in re	• •		
12) ☐ The oath or declaration is objected to by the E	xaminer.		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C	C. § 119(a)-(d) or (f).	
a)☐ All b)☐ Some * c)☐ None of:			
1. Certified copies of the priority documen	ts have been received.		
2. Certified copies of the priority documen	ts have been received in	Application No	•
3. Copies of the certified copies of the prical application from the International Books* See the attached detailed Office action for a list	ureau (PCT Rule 17.2(a)).	age
14) ☐ Acknowledgment is made of a claim for domes			onlication).
a) ☐ The translation of the foreign language pr	-	- , , , ,	1
15) Acknowledgment is made of a claim for domes	• •		
Attachment(s)			
1)	5) Notice	w Summary (PTO-413) Paper No(s). of Informal Patent Application (PTO-1	

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DETAILED ACTION

Claim Objections

1. Claims 7, 16, and 25 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

Claims 7, 16, and 25 that recite one end connected to the housing respectively depend on claims 6, 15, and 24 that already recite the two ends of the anchor being connected to the housing.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 7, 16, and 25 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 7 and 16, line 1, "one end" is indefinite since it does not define one end of what is recited in the claim.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Brosse (FR 2 617 345).

Brosse discloses in Figures 5-7 invention as claimed: a flux ring 1 comprising an annular housing of a magnetically permeable material, molded magnet 5 received on the housing, and anchor 15 on the housing retaining the magnet in the housing, wherein the anchor is unitarily formed with the housing (Re page 5, lines 20-24) and including a bend and a reinforcement member 15b.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 2, 3, 8, and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brosse (FR 2 617 345).

Brosse discloses the flax ring of a magnetically permeable material. However, **Brosse** fails to disclose the ring made of a magnetically permeable metal.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to design the ring as taught by **Brosse** and to provide the ring made of the magnetically permeable metal for the purpose of strengthen the ring structure, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

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The combined tool discloses the claimed invention except for the anchor having the T or L-shape. It would have been an obvious matter of design choice to design the anchor in the T or L-shape since applicant has not disclosed that these particular shapes solve any stated problem or is for any particular purpose and it appears that the invention would perform equally well with any other shape like S or V-shape. *In re Span-Deck Inc.* v. *Fab-Con Inc.* (CA 8, 1982) 215 USPQ 835.

8. Claims 10 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brennan et al. (US 4,873,461) in view of Brosse (FR 2 617 345).

Brennan et al. disclose in Figures 1, 1A, and 2, a power tool 10 comprising a housing 11, a motor 20 comprising a stator assembly including a low carbon steel flux ring 24 (Re column 5, lines 15-20), magnets 65 retained in the housing 23, an armature 33, a commutator 36 connected to the armature via shaft 21, brush assemblies 43, 44, a power supply B, an output member 22, and the actuator member 16. However, Brennan et al. fail to disclose the at least one molded magnet being retained by an anchor unitarily formed in the housing of molding a powdered magnetic material of increased magnetic force directly to the ring or yoke of molding a powdered magnetic material of increased magnetic force directly to the ring or yoke.

Brosse discloses a flux ring 1 comprising an annular housing of a magnetically permeable material, molded magnet 5 received on the housing, and anchor 15 on the housing retaining the magnet in the housing, wherein the anchor is unitarily formed with the housing (Re page 5, lines 20-24) and including a bend and a reinforcement member 15b for the purpose of molding a powdered magnetic material of increased magnetic force directly to the ring or yoke.

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It would have been obvious to one having ordinary skill in the art at the time the invention was made to design the power tool as taught by **Brennan et al.** and to provide at least one molded magnet being retained by an anchor unitarily formed in the housing as taught by **Brosse** for the purpose of molding a powdered magnetic material of increased magnetic force directly to the ring or yoke.

9. Claims 11, 12, 17, 18, 20, 21, 26, and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable Brennan et al. (US 4,873,461) in view of Brosse (FR 2 617 345) as applied to claims 11 and 19.

The combined power tool discloses all elements as claimed including the flax ring of a magnetically permeable material. However, it fails to disclose the ring made of a magnetically permeable metal.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to design the combined tool and to provide the ring made of the magnetically permeable metal for the purpose of strengthening the ring structure, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

The combined tool discloses the claimed invention except for the anchor having the T or L-shape. It would have been an obvious matter of design choice to design the anchor in the T or L-shape since applicant has not disclosed that these particular shapes solve any stated problem or is for any particular purpose and it appears that the invention would perform equally well with

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any other shape like S or V-shape. *In re Span-Deck Inc.* v. *Fab-Con Inc.* (CA 8, 1982) 215 USPQ 835.

Allowable Subject Matter

10. Claims 4-6, 8, 9, 13-15, 22-24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Re claims 4, 5, 13, 14, 22-24 and, the feature of the anchor formed from the housing and providing an aperture immediate the anchor, in combination with the other limitations present, are neither disclosed nor taught by the prior art of record.

Re claims 6 and 15, the feature of the anchor having an overall rectangular shape with two ends connected to the housing with reinforcement members at the bends, in combination with the other limitations present, are neither disclosed nor taught by the prior art of record.

Communication

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Waks whose telephone number is (703) 308-1676. The examiner can normally be reached on Monday through Thursday 8 am to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor R Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-1341 for regular communications and (703) 305-1341 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1782.

JOSEPH WAKS PRIMARY PATENT EXAMINER
TC-2800

JW

August 22, 2002